



State of Wisconsin

DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES

CORRESPONDENCE / MEMORANDUM

Boiler and Mechanical Safety Guidelines for the backflow protection of steam and hot water boilers.

Examples of approved backflow devices for boilers

A.S.S.E. 1012

A.S.S.E. 1013

A.S.S.E.1013 Department of Safety and Buildings Boiler and Mechanical Safety Guidelines for the backflow protection of steam and hot water boilers.

A.S.S.E. 1012



A.S.S.E. 1013



A.S.S.E. 1013

- ◆ SPS 382.41(3) sets forth the requirements for the protection of potable water within water supply systems when and where there is the possibility of contamination due to backflow conditions. The connection of each piece of equipment, appliance or non-potable water piping system shall be designed, installed and maintained in such a manner to prevent the contamination of water supply (this includes boilers).
- ◆ Backflow devices must be installed by a licensed plumber. Wisconsin State statutes chapter 145.06(1) (a) states: No person may engage in or work at plumbing in the State of Wisconsin unless licensed to do so by the department.
- ◆ Milwaukee code of Ordinances chapter 225-3(4) requires a plumbing permit to install backflow preventers.
- ◆ If a chemical pot-feeder or automatic chemical feeder is installed to serve a boiler, it shall be classified a high hazard and will require an ASSE 1013 device. If chemicals are used in the boiler then it's considered to be high hazard classification.

Type of device required Table for the selection of backflow protection on boilers		
High Hazard		Low Hazard
Boilers with a safety valve setting less than 15psi steam or 30psi water	A.S.S.E. 1013	A.S.S.E. 1012
Boilers with a safety valve setting greater than 15psi steam or 30psi water	A.S.S.E. 1013	A.S.S.E. 1013